

STEERING COMMITTEE

APRIL 8, 2014

Energy Planning



Policy is under expert review



Strategy is under development

- LEAP model was used for strategy.
- 2012 energy balance, reference scenario, alternative scenarios
 - RES
 - EE
 - Energy Independence
- Lack specific information on future growth – Economic Strategy (Georgia 2020) is general in nature
- Energy efficiency targets, renewable energy targets will take 1-2 years



Residential energy survey is underway – due by end of May



Training of AD staff in scenario development in Georgia MARKAL

MoE Six-Month Action Plan

Continue to develop GEMM 2015 activities

- Need to get to daily and eventually hourly market in place
- Critical path is automating settlement process
- Lack of balancing procedures need to adopt before software is designed for BM
- Examination of price zone on EPIAS
- Grid Code adoption
- TSO option selected

Joint roadmap

- GSE and

HPEP

Software development: HPEP, WB, and/or selffinanced



Important Investor Feedback on Legal/Regulatory Framework

- Market Participants should be able to review and provide comments on Market Rules amendments before regulatory approval
- Tendering of new HPP sites should require threshold requirements for bidders
- Interconnection capacity should be declared firm or non-firm

Watershed HPP Development CBA Model

Working Group is created











Four formal and several informal meetings









Watershed HPP Development CBA Model

Thematic areas have been identified

| FINAL PRIORITIZED THEMATIC AREAS BEFORE CONSIDERING DATA AVAILABILITY | | | | | | | | | | | |
|---|---|------|-----|------------|-----|----|--------------------|----------------|----------|---|--|
| LN | THEMATIC AREA | CENN | REC | NGO EEC | GMG | GA | TBSC ADJUSTMENT | TOTAL SCORE | CATEGORY | COMMENT | |
| 1 | Resettlement | Α | Α | В | Α | Α | | 14 | Α | | |
| 2 | Economic Development And Employment | А | С | Α | Α | С | 1 | 12 | Α | Adjustment from B to A due to larger number of A's. | |
| 3 | Raw Materials | В | Α | Α | В | В | | 12 | Α | | |
| 4 | Moderation Of Extreme Events | С | Α | В | Α | Α | | 12 | Α | Could be combined with #11 if permitted by monetization method. | |
| 5 | Fresh Water | В | С | Α | С | В | 1 | 10 | В | Adjustment from C to B due to presence of an A. | |
| 6 | Spiritual Experience And Sense Of Place | В | Α | В | С | Α | | 11 | В | | |
| 7 | Habitats For Species | Α | В | В | Α | С | | 11 | В | Could be combined with #10 if permitted by monetization method. | |
| 8 | Tourism | Α | В | Α | С | В | | 11 | В | | |
| 9 | Mineral Resources | С | В | В | В | Α | | 10 | В | | |
| 10 | Local Climate And Air Quality | С | В | С | В | В | | 8 | С | | |
| 11 | Maintenance Of Genetic Diversity | С | С | С | В | С | | 6 | С | Could be combined with #7 if permitted by monetization method. | |
| 12 | Erosion Prevention And Maintenance Of Soil Fertility | В | В | С | В | С | | 8 | С | Could be combined with #8 if permitted by monetization method. | |
| 13 | Carbon Sequestration And Storage | В | С | С | С | В | | 7 | С | | |

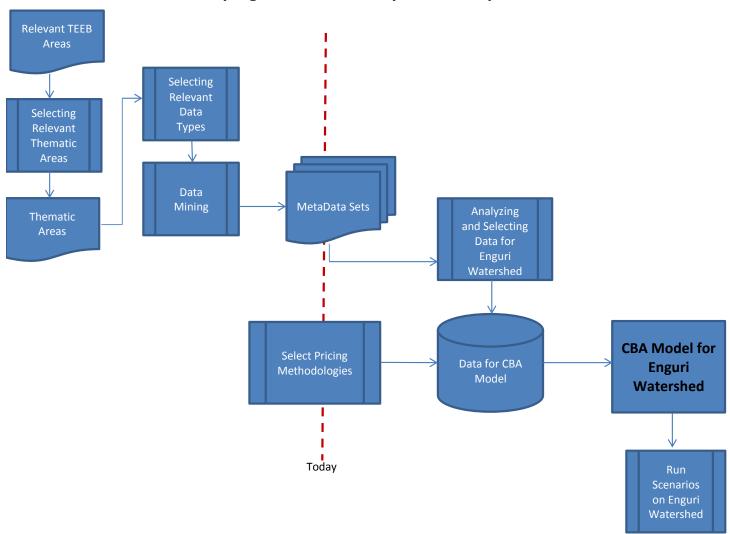


Watershed HPP Development CBA Model

Data mining is required for 55 datasheets, half is done so far

| Metadata Form - Landslide Hazards | | | | | | | | | | |
|-----------------------------------|--|---|--|--|--|--|--|--|--|--|
| LN | ITEM | VALUE | COMMENT | | | | | | | |
| 1 | Prepared By (name of individual) | Kakha Bakhtadze | | | | | | | | |
| 2 | Name Of Data Set (formal or informal) | Landslide Hazard Data Set | | | | | | | | |
| 3 | General Description (one paragraph) | This includes all the areas that are characterized by landslide hazards for all of Georgia. The data set shows high, moderate and low level of hazards. Based on this data, one can calculate how many houses are in hazards of landslides. | | | | | | | | |
| 4 | Type (primary, aggregated or secondary) | Primary | | | | | | | | |
| 5 | Who Created (institution) | CENN; Twente University The Netherlands. | There is data in both forms: primary and secondary (maps). | | | | | | | |
| 6 | Most Knowledgeable Person (individual) | Nino Kheladze, Kakha Bakhtadze (CENN) | | | | | | | | |
| 7 | Owner (whose permission is needed) | CENN | | | | | | | | |
| 8 | Where Do We Get It | CENN | | | | | | | | |
| 9 | How It Was Created | Combination of many other primary data sources: baseline data (geology, soil, precipitation, geoinformation analysis); Verification of the map by site visits (testing the validity). | | | | | | | | |
| 10 | Why It Was Created | To identify the hazard zones and use it for future spatial planning process (e.g., construction of houses). | | | | | | | | |
| 11 | When It Was Created (date, duration, repeatedness) | Start date: 2012; End date: 2013. Analysis process 2013. The foundation data dates from mid to late 20th century. | | | | | | | | |
| 12 | List Of Reports Based On This (name, author, where do we get it) | Atlas of Natural Hazards and Risks of Georgia; CENN, University of Twente (Kingdom of the Netherlands), Ministry of Interior, Ilia State University, NEA (National Environmental Agency). | | | | | | | | |
| 13 | Executive Summary From Each Report | To be pasted in. | | | | | | | | |
| 14 | Links To Other Data | See pages 102-103 as attachments. | | | | | | | | |
| 15 | Other | | | | | | | | | |

Developing the HPP Development Template CBA Model



3rd International Cross Border Electricity Trading Conference

Proposed Date: June 4,5

Proposed Venue: TBD

Proposed Topics: Progress on the ETM/GEMM 2015







2nd GTU Conference

- Energy sector development
- Focus on women as energy sector leaders



GENDER DISTRIBUTION IN THE STATE ENERGY AGENCIES

Gender distribution in the State energy agencies is as follows:

GNERC 59 men, 45 women (43%)

■ men ■ women

MoE 46 men, 46 women (50%)



GSE 1168 men, 228 women (20%)



ESCO 32 men, 32 women (50%)





Mariam Valishvili, Deputy Minister, MoE

HYDRO POWER AND ENERGY PLANNING PROJECT (HPEP)

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MAIN GOALS

HPEP will strive to address gender issues through:

Highlight successful women leaders in public events in order to encourage more women to work in energy sector

Support young female students to enhance their capabilities through educational and training opportunities, Effective young leaders actually hone their skills through workshops and training program

Encourage women to voice-up their concerns



Marita Arabidze, Head of Energy Efficiency and Renewable Energy Division, MoE

MAIN ACTIVITIES

- Organize the International Cross Trading Conference,
- Arrange student conference at the University.
- Propose and assist gender development
 Georgian Energy Sector Stakeholder
- Tailor a leaders' support progran leaders
- Tailor a capacity building programstaff



Irina Milorava, Chairperson, GNERC

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